

Atty Docket: 101195-48

AMENDMENT TO THE CLAIMS

1. (Currently amended) A promoter arbitrary genes in plant seeds, wherein there exists the sequence of ~~Fig. 1a~~SEQ ID NO: 1, ~~which thus becomes the object of the claim.~~
2. (Previously presented) The promoter according to claim 1, wherein it mediates the expression in the cotyledons and in the endosperm of seeds as a function of development.
3. (Currently amended) Expression cassette for expression of arbitrary genes, containing:
 - a promoter according to ~~claim 1 or 2~~ SEQ ID NO: 1,
 - a gene to be expressed
 - 3' termination sequences.
4. (Previously presented) Expression cassette according to claim 3, wherein it additionally contains the DNA sequence of a signal peptide, preferably the SBP signal peptide.
5. (Previously presented) Expression cassette according to claim 3, wherein a further DNA sequence is downstream to the DNA region provided with a transcriptionally regulatory sequence for a strong seed-specific gene expression, the latter region containing the information for the formation and quantitative distribution of endogenous products or the expression of heterologous products in culture crops.
6. (Currently amended) Expression cassette according to ~~claims 3 to 5~~ claim 3, wherein arbitrary foreign genes are integrated either as transcription or as translation fusions.
7. (Currently amended) Expression cassette according to ~~claims 3 to 6~~ claim 3, wherein the signal peptide of the SBP seed protein gene is used as a signal peptide.

Atty Docket: 101195-48

8. (Currently amended) Expression cassette according to ~~claims 3 to 7~~claim 3, wherein the gene of the binding protein is used as the gene to be expressed.
9. (Currently amended) Expression cassette according to ~~claims 3 to 38~~claim 38, wherein it is also used for co- and multi transformations.
10. (Currently amended) Plasmids containing an expression cassette according to ~~claims 3 to 8~~claim 3.
11. (Previously presented) Plasmid pSBPROCS according to claim 10, comprising a DNA sequence about 5.3 kb in size, in which a Sall promoter fragment of the regulatory starter area about 1.9 kb in size including the signal peptide and 5 triplets of the SBP-homologous gene of Vicia faba, restriction for cloning genes and the transcription terminator of the octopine synthase gene are contained.
12. (Previously presented) Plasmid pTVSBPRGUS according to claim 10, a DNA sequence about 14.9 kb in size, in which a phosphinothricin resistance gene about 1 kb in size, a Sall/NcoI promoter fragment of the regulatory starter area of the SBP-gene of Vicia faba about 1.8 kb in size, the coding region of the β -glucuronidase about 2 kb in size and the transcription terminator of the octopine synthase gene are contained.
13. (Currently amended) Method for the insertion of an expression cassette according to ~~claims 3 to 9~~claim 3 with a DNA sequence for strong seed-specific gene expression into a plant cell, comprising the following steps:
 - a) isolation of clone VfSBP20, wherein the gene coding for the SBP seed protein occurring in the plant seed is selected from a cDNA Bank of cotyledons of Vicia faba,
 - b) isolation of clone pSBPR15, wherein the DNA sequence contained therein comprises the regulatory starter region of the SBP seed protein gene of Vicia faba and a sequence from a related hybridising with the DNA sequence of the SBPR15,
 - c) production of the plasmid pSBPOCS making use of the Sall fragment of plasmid pSBPR15 1.9 kb in size,
 - d) integration of genes into the pSBPOCS expression cassette,

Atty Docket: 101195-48

- e) cloning of the expression cassette containing a DNA sequence for over-expression of genes in plant seeds, into binary vectors
- f) transfer of the expression cassette containing an gene under the control of the promoter according to ~~claims 1 or 2~~claim 1 into a plant cell.

14. - 18. (Canceled).

19. (Currently amended) Plant cell containing a plasmid according to ~~claims 10 to 12~~claim 10.

20. (Previously presented) Plant cell produced according to the method of claim 13.

21. (Currently amended) Plant or plant tissues regenerated from a plant cell according to ~~claims 14 or 15~~claim 20.

22. (Currently amended) Plant according to claim ~~14~~21, wherein it is a culture crop.

23. (Previously presented) The expression cassette according to claim 4, further comprising a DNA sequence encoding a SBP signal peptide.